

6 adding a simulation routine to said netlist for performing simulations of said circuit
7 desing for respective altered circuit parameter values to arrive at respective selected vector
8 measurements; and
9 adding an analysis routine to said netlist for manipulating at least one of said vector
10 measurements in accordance with said pre-determined analysis.

1 2. (Original) The method of claim 1, further including the step of adding tolerances
2 in the netlist for said circuit parameters.

1 3. (Original) The method of claim 1, further including the step of removing
2 parameter and vector save statements in said netlist.

1 4. (Original) The method of claim 1, further including the step of adding a routine
2 to said netlist to perform a reference simulation of said netlist to arrive at a nominal value for
3 said selected vector measurement.

1 5. (Currently Amended) The method of claim 4, wherein said analysis routine also
2 manipulates said selected vector measurement in accordance with said pre-determined analysis.

1 6. (Original) The method of claim 5, wherein said pre-determined analysis includes
2 a sensitivity analysis involving determining a difference between said respective selected vector
3 measurements and said nominal selected vector measurement.

1 7. (Original) The method of claim 6, wherein said pre-determined analysis further
2 includes a root summed square analysis involving a sum of the square of said difference between
3 said respective selected vector measurements and said nominal selected vector measurement.

1 8. (Original) The method of claim 6, wherein said pre-determined analysis further
2 includes a extreme value analysis involving a determination of a maximum of said difference
3 between said respective selected vector measurements and said nominal selected vector
4 measurement when said circuit parameter values at their extreme tolerance values.

1 9. (Original) The method of claim 6, wherein said pre-determined analysis further
2 includes a worst case by sensitivity analysis involving a maximum of an absolute value of said
3 difference between said respective selected vector measurements and said nominal selected
4 vector measurement.

1 10. (Original) A computer readable medium having stored therein a simulation
2 template for modifying a SPICE netlist of a circuit design to perform a pre-determined analysis
3 involving parameter perturbations, comprising:

4 a routine to add to said netlist for altering circuit parameter values of said circuit design
5 in a pre-determined manner;

6 a routine to add to said netlist for performing simulations of said circuit design for
7 respective altered circuit parameter values to arrive at respective selected vector measurements;
8 and

9 a routine to add to said netlist for manipulating at least one of said vector measurements
10 in accordance with said pre-determined analysis.

1 11. (Original) The computer readable medium of claim 10, wherein said simulation
2 template further includes a command to add tolerances in the netlist for said circuit parameters.

1 12. (Original) The computer readable medium of claim 10, wherein said simulation
2 template further includes a command to remove parameter and vector save statements in said
3 netlist.

1 13. (Original) The computer readable medium to claim 10, wherein said simulation
2 template further includes a routine to add to said netlist for performing a reference simulation of
3 said netlist to arrive at a nominal value for said selected vector measurement.

1 14. (Original) The computer readable medium of claim 13, wherein said analysis
2 routine also manipulates said nominal selected vector measurement in accordance with said-pre-
3 determined analysis.

1 15. (Original) The computer readable medium of claim 14, wherein said pre-
2 determined analysis includes a sensitivity analysis involving determining a difference between
3 said respective selected vector measurements and said nominal selected vector measurement.

1 16. (Original) The computer readable medium claim 15, wherein said pre-determined
2 analysis further includes a root summed square analysis involving a sum of the square of said
3 difference between said respective selected vector measurements and said nominal selected
4 vector measurement.

1 17. (Original) The computer readable medium of claim 15, wherein said pre-
2 determined analysis further includes a extreme value analysis involving a determination of a
3 maximum of said difference between said respective selected vector measurements and said
4 nominal selected vector measurement when said circuit parameter values at their extreme
5 tolerance values.

1 18. (Original) The computer readable medium of claim 15, wherein said pre-
2 determined analysis further includes a worst case by sensitivity analysis involving a maximum of
3 an absolute value of said difference between said respective selected vector measurements and
4 said nominal selected vector measurement.
